

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A turbogenerator comprising:
 - a) a turbine prime mover;
 - b) an induction alternator;
 - c) an excitation system for said induction alternator comprising a plurality of static capacitors and switches;
 - d) a cycloconverter connected to said induction ~~alternator~~, alternator; and
 - e) a control circuit to control said excitation system and said ~~cycloconverter~~ cycloconverter.
2. (Original) The turbogenerator of claim 1 wherein said induction alternator comprises a plurality of parallel windings thereby allowing elimination of a transformer.
3. (Original) The turbogenerator of claim 2 wherein said induction alternator comprises three parallel windings.
4. (Original) The turbogenerator of claim 1 further comprising an independent alternating current power source in circuit with said cycloconverter to permit starting of the prime mover using the induction alternator.
5. (Original) The turbogenerator of claim 1 wherein said cycloconverter is naturally commutated.
6. (Original) The turbogenerator of claim 5 wherein said cycloconverter comprises a plurality of switches.
7. (Original) The turbogenerator of claim 6 wherein said cycloconverter comprises a plurality of silicon controlled rectifiers.

8. (Original) The turbogenerator of claim 1 wherein said controller is a programmable logic controller.
9. (Currently amended) A transformerless turbogenerator comprising:
 - a) a turbine prime mover;
 - b) an induction alternator comprising a plurality of parallel windings;
 - c) an excitation system for said induction alternator comprising a plurality of static capacitors and switches;
 - d) a naturally commutated cycloconverter connected to said induction alternator; alternator; and
 - e) a control circuit to control said excitation system and said cycloconverter cycloconverter.
10. (Original) The turbogenerator of claim 9 further comprising an independent alternating current power source in circuit with said cycloconverter to permit starting of the prime mover using the induction alternator.
11. (Original) The turbogenerator of claim 9 wherein said induction alternator comprises three parallel windings.
12. (Original) The turbogenerator of claim 9 wherein said cycloconverter comprises a plurality of switches.
13. (Original) The turbogenerator of claim 12 wherein said cycloconverter comprises a plurality of silicon controlled rectifiers.
14. (Original) The turbogenerator of claim 9 wherein said controller is a programmable logic controller.
15. (New) The turbogenerator of claim 2 wherein each of the parallel windings of the induction alternator has a plurality of arms, and wherein the excitation system comprises:
 - a first capacitor and a switch connected in series; and,
 - a second capacitor;

connected in parallel between each pair of arms of each of the parallel windings.

16. (New) The turbogenerator of claim 9 wherein each of the parallel windings of the induction alternator has three arms, and wherein the excitation system comprises:
 - a first capacitor and a switch connected in series; and,
 - a second capacitor;connected in parallel between each pair of arms of each of the parallel windings.